

Name: _____

at1121exam_practice: Radicals and Squares (v15)

Question 1

Simplify the radical expressions.

$$\sqrt{18}$$

$$\sqrt{44}$$

$$\sqrt{28}$$

Question 2

Find all solutions to the equation below:

$$3((x - 8)^2 - 5) = 93$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 16x = 80$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 + 28x + 95$$

Express the function in **vertex form** and identify the **location** of the vertex.